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DEPARTMENT OF THE ARMY **09250-TD**
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JSH

TULSA DISTRICT GUIDE SPECIFICATION
Includes changes through Notice 1 (January 1996)

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SECTION 09250

GYPSUM WALLBOARD

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NOTE: This guide specification covers the requirements for gypsum board, including regular, foil backed, fire-resistant, and water-resistant types. This guide specification is to be used in the preparation of project specifications in accordance with ER 1110-345-720.

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1 GENERAL

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NOTE: See Additional Notes A and B.

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1.1 REFERENCES

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NOTE: Issue (date) of references included in project specifications need not be more current than provided by the latest change (Notice) to this guide specification.

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The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM C 840	(1994) Application and Finishing of Gypsum Board

FACTORY MUTUAL ENGINEERING AND RESEARCH (FM)

FM P8016	(1993) Specification Tested Products Guide

GYPSUM ASSOCIATION (GA)

GA 600	(1992) Fire Resistance Design Manual

UNDERWRITERS LABORATORIES (UL)

UL-05 (1993; supple) Fire Resistance Directory

1.2 SUBMITTALS

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NOTE: Submittals must be limited to those necessary for adequate quality control. The importance of an item in the project should be one of the primary factors in determining if a submittal for the item should be required.

Indicate submittal classification in the blank space using "GA" when the submittal requires Government approval or "FIO" when the submittal is for information only.

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Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01300 SUBMITTAL DESCRIPTIONS:

SD-04 Drawings

Steel Framing; FIO. Control Joints; FIO. Fire-Resistant Assemblies; FIO.

Drawings and installation details for ceiling framing, furring, special wall framing, and framed openings in walls and ceilings.

SD-06 Instructions

Manufacturers Recommendations; FIO.

Preprinted material describing installation of a product, system and material.

SD-13 Certificates

Gypsum Wallboard; FIO. Water-Resistant Gypsum Board; FIO. Steel Framing; FIO.

Certificates stating that the steel framing and gypsum wallboard meet the specified requirements.

1.3 QUALIFICATIONS

Manufacturer shall specialize in manufacturing the types of material specified and shall have a minimum of 10 years of documented successful experience. Installer shall specialize in the type of gypsum board work required and shall have a minimum of 5 years of documented successful experience.

2 MATERIALS

Unless otherwise specified or shown, gypsum wallboard materials, including gypsum board, framing members, fasteners, finishing materials, accessories,

and other applicable materials shall conform to ASTM C 840. Water-resistant gypsum board shall be Type X, with water-resistant paper faces, [paintable surfaces]. Accessories such as hangars, tie wire, clips, rings and other fastenings not specified in ASTM C 840 or standards referenced therein shall conform to the gypsum board manufacturer's written recommended requirements.

3 EXECUTION

3.1 APPLICATION OF GYPSUM BOARD

Gypsum board shall be installed in accordance with ASTM C 840 and as the standards referenced therein and as specified herein.

3.2 FIRE-RESISTANT ASSEMBLIES

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NOTE: See Additional Note B.
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Gypsum wallboard construction for fire-rated assemblies shall be in accordance with UL-05, FM P8016 or GA 600 for the design indicated on drawings.

3.2.1 Fire-Rated Construction

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NOTE: Review building code requirements for fire-rated construction, pressurized enclosures, stair and elevator shaft walls. Omit portions that do not apply.
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Joints of fire-rated gypsum board enclosures shall be closed and sealed in accordance with UL requirements, and as required to meet pressurization requirements. Penetrations through rated partitions and ceilings shall be sealed tight with rated firestopping materials.

3.2.2 Pressurized Enclosures

Pressurized fire-rated gypsum board enclosures shall allow the mechanical and electrical life-safety systems to operate in accordance with the design intent. Air pressure within elevator shaft shall be 360 Pa (7.5 psf). 7.5 pounds per square foot. Air pressure within stair shaft shall be 240 Pa (5.0 psf). 5.0 pounds per square foot. Maximum mid-span deflection shall be L/360.

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ADDITIONAL NOTES

NOTE A: For additional information on the use of all CEGS, see CEGS-01000 CEGS GENERAL NOTES.

NOTE B: Where a specific degree of fire resistance is required for gypsum wallboard assemblies and constructions, applicable systems from UL Fire Resistance Directory or FM Products Guide will be used and the UL or FM design numbers will be indicated on

the drawings. Construction details for fire resistance and sound control are also described in the Gypsum Association's Fire Resistance Design Manual, and are based on official reports of fire and sound tests conducted by recognized testing laboratories in accordance with applicable standards of ASTM including E 90, E 119, E 336, and E 492. Designers should closely adhere to tested designs, since seemingly small changes such as change in material type or thickness, can affect the fire resistance and sound transmission of a structure. Designers shall exercise care in specifying a UL assembly, since specifying the assembly could result in a proprietary specification.

NOTE C: For wet areas such as tub and shower enclosures, use cementitious backer board (ANSI 118.9) or mortar bed method as a base for adhesive-application of ceramic or plastic wall tile. Do not use water-resistant gypsum board in extremely critical areas such as saunas, steam rooms, gang shower rooms, or directly over a vapor barrier. Do not use cementitious backer board or water resistant gypsum board on ceilings. For tile work, coordinate gypsum board requirements with tile manufacturer, ASTM C 840 and ANSI A 136.1. Exposed-to-view water-resistant gypsum board is to be painted. Not all manufacturers provide a paintable water-resistant gypsum board.

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